# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 27459MC186FD			FOR FURTHER A	CTION	See Form PCT/IPEA/416			
International application No.			International filing da	te (day/month/year)	Priority date (day/month/year)			
PCT/FR2004/002102			06.08.200	4	08.08.2003			
International Patent Classification (IPC) or national classification and IPC								
C04B18/02								
Applicant								
LABORATOIRE CENTRAL DES PONTS ET CHAUSSEES								
	<u></u>							
	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. 7	This REPORT consists o	of a total of	6	sheets, including	this cover sheet.			
3. 7	This report is also accom	panied by Al	NNEXES, comprising:					
	a. (sent to the a	pplicant and t	to the International Bu	reau) a total of 3	sheets, as follows:			
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative							
	Instruct	•	ede earlier sheets, but	which this Authority cons	iders contain an amendment that goes beyond			
					in item 4 of Box No. I and the Supplemental			
,		nternational F	Rureau anha) a total of	(indicate type and number	of electronic carrier(s))			
]	o (sent to the ti	aermanoma L	oureau orași a total of	(mucae type and number				
	related thereto.	in computer	readable form only, a	s indicated in the Suppler	, containing a sequence listing and/or tables nental Box Relating to Sequence Listing (see			
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. 7	This report contains indi	cations relatin	ng to the following iter	ns:				
	Box No. I	Basis of the	report					
	Box No. II	Priority						
	Box No. III	Non-establis	shment of opinion with	hment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unit		Lack of unit	y of invention					
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docum		aments cited	ments cited					
[	Box No. VII	Certain defe	cts in the international	application				
	Box No. VIII Certain observations on the international application							
Date of submission of the demand				Date of completion of this	s report			
Name and mailing address of the IPEA/EP			· · · · · · · · · · · · · · · · · · ·	Authorized officer				
Facsimile No.				Telephone No.				

Translation

International application No.
PCT/FR2004/002102

Вох	No. I	Basis of the report		
1.		to the language, this report is based on the internation der this item.	nal application in the language in	which it was filed, unless otherwise
	which	eport is based on translations from the original language is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and/	oses of: ) or 55.3)	
2.	receiving O this report):  the int the de	ternational application as originally filed/furnished	e referred to in this report as "o	riginally filed" and are not annexed to
	pages	_		as originally filed/furnished 11.06.2005 with letter
	pages			
	pages		received by this Authority on	
	the cla	aims:		
	nos.			as originally filed/furnished
	nos.*		as amended (togethe	r with any statement) under Article 19 11.06.2005 with letter
	nos.*	1-13	received by this Authority on	of 08.06.2005
	nos.*		received by this Authority on	
	the dr	awings:		
	sheets	1/1		as originally filed/furnished
	sheets	*	received by this Authority on	
	sheets	*	received by this Authority on	
	a sequ	pence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence L	isting.
3	The a	mendments have resulted in the cancellation of:		
٥.	-	the description, pages		
		the claims, nos.		
	$\overline{}$	<del> </del>		
4		any table(s) related to sequence listing (specify):  report has been established as if (some of) the amend	ments annexed to this report and	
<b>4.</b>		have been considered to go beyond the disclosure as file		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If item 4 app	plies, some or all of those sheets may be marked "supe	erseded."	

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No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Statement						
Novelty	(N) Claims 1-13 Claims	YES NO				
Inventiv						
Industria		YES NO				
Citations an	d explanations (Rule 70.7)					
1. Reference is made to the following documents:						
		9 255402 A (NGK INSULATORS				
LTD), 30 September 1997						
		VERPOOL JOHN MOORES UNIVERSI) 3				
	·					
	-					
2.	The present application	fails to meet the requirements				
of PCT Article 33(1), since the subject matter of						
claims 1 to 4, 7 and 10 to 13 does not		to 13 does not involve an				
inventive step as defined by PCT Article 33(3).						
	_					
2.1	D1, which is considered	to be the prior art closest to				
	the subject matter of c	Laim 1, describes (the				
references between parentheses apply to said document):		ntheses apply to said				
	a method for producing	a material for the surface				
	course in which a morta	r is subjected to two curing				
	stages prior to being c	rushed (paragraph [0008]). D1				
		ar comprises cement, fly ash,				
		aragraphs [0016] and [0018]),				
	that the ash has a size	less than 40 µm (abstract) and				
	that the material is cr					
	Inventive Industrial Citations and 1.	Statement  Novelty (N)  Claims  Inventive step (IS)  Claims  C				

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

than 50 mm (paragraph [0024]).

Consequently, the subject matter of claim 1 differs from D1 in that the size of the final product is between 2 and 15 mm.

The problem that the present invention is intended to solve can be considered to be that of producing artificial aggregate having improved properties for use in road surfaces (mechanical strength, resistance to wear and high roughness).

Given that D1 also describes the use of the resulting product for preparing road surfaces (paragraph [0021]), it appears that a person skilled in the art would select a particle size distribution suitable for incorporation of the aggregates in the surface courses. Furthermore, since the present application does not demonstrate any technical effect arising from the specific size of the aggregates, an inventive step cannot be acknowledged.

- 2.2 Dependent claims 2 to 4, 7 and 10 to 13 contain no feature which, when combined with the features of any one of the claims to which they refer, defines subject matter that complies with the PCT requirements of inventive step, for the following reasons:
  - The features of dependent claims 2 to 4, 7 and 10 to 12 have already been used for the same purpose in D1. It is obvious for a person skilled in the art to apply these features, with a corresponding

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effect, in a method for producing artificial aggregates having a size between 2 and 15 mm.

- The feature of dependent claim 13 has already been used for the same purpose in D3. It is obvious for a person skilled in the art to apply this feature, with a corresponding effect, in a method for producing artificial aggregates having a size between 2 and 15 mm.
- The feature of dependent claim 3 is merely one of several obvious options that a person skilled in the art seeking to solve the stated problem might select, depending on each particular case, and without an inventive step being involved.
- 3. The combination of features of dependent claims 5, 6, 8 and/or 9 is not found in the prior art and cannot be derived in an obvious manner therefrom. The reasons for this are as follows: it appears that, by subjecting the aggregates to a second and a third curing stage, the mechanical strength can be further improved.

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Supplemental Box	
In case the space in any of the preceding boxes is not sufficient.  Continuation of:	
The amendments added by the letter of 11/	06/2005 meet the
requirements of Article 34(2)(b). Consequ	ently, the
amended claims form the basis for the pre	sent report.